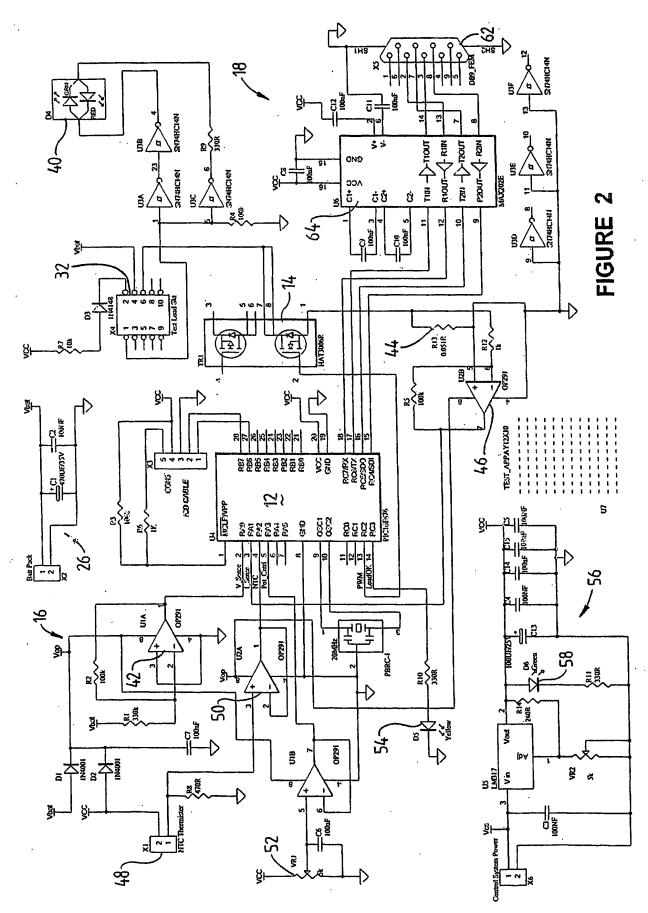


FIGURE 1



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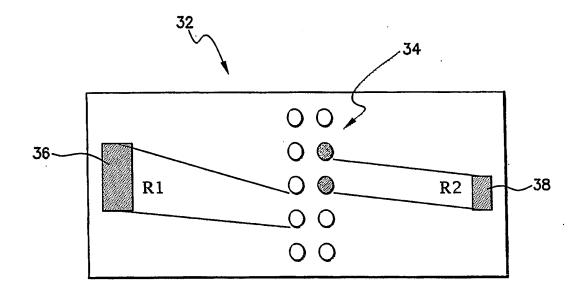


FIGURE 3

Temperature Measurements

Energy efficiency of simple and compound pulses

Target temperature 100C, duration 1s

120

18

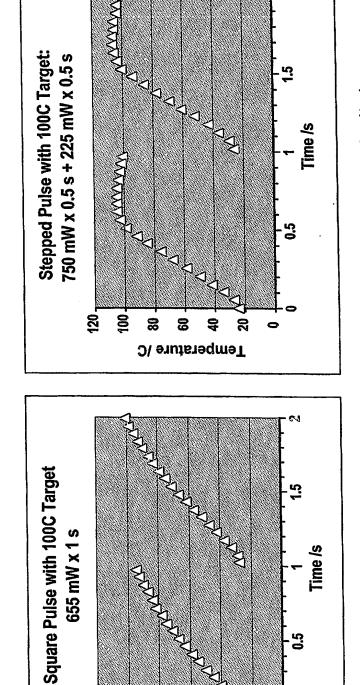
8

4

29

99

Temperature /C



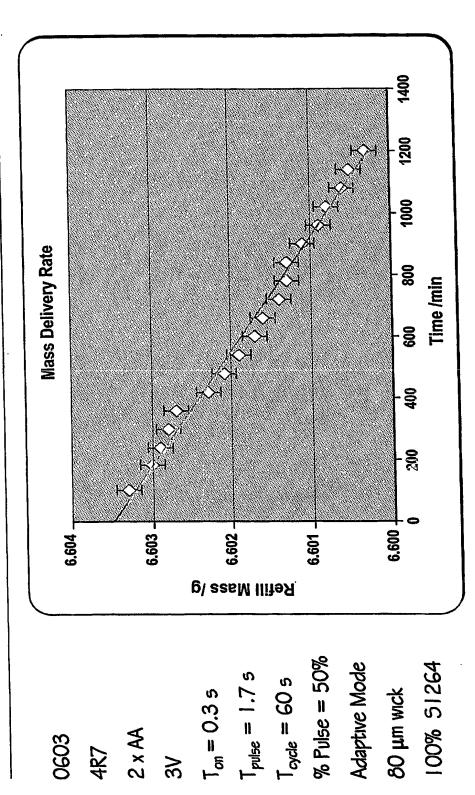
Energy Cost: 485 mJ/pulse

Energy Cost: 655 mJ/pulse

25% energy saving, temperature maintained longer

FIGURE 4

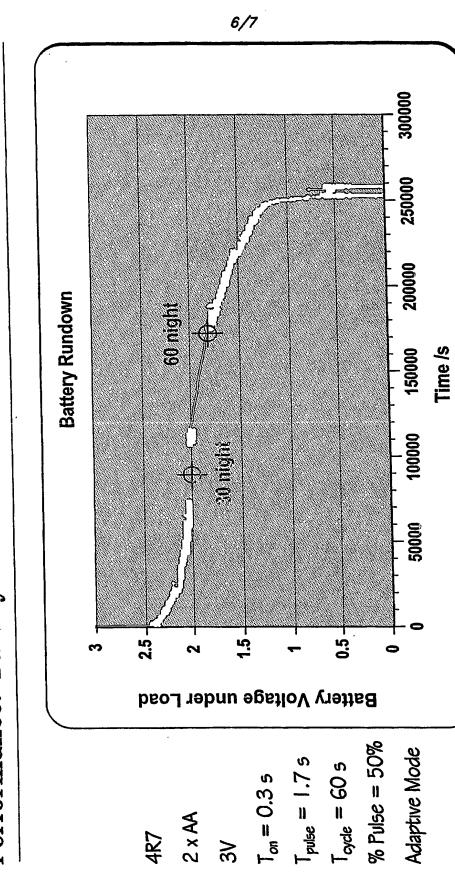
Performance: Delivery Rates



Delivery Rate = $160 \, \mu g/hr$

FIGURE 5

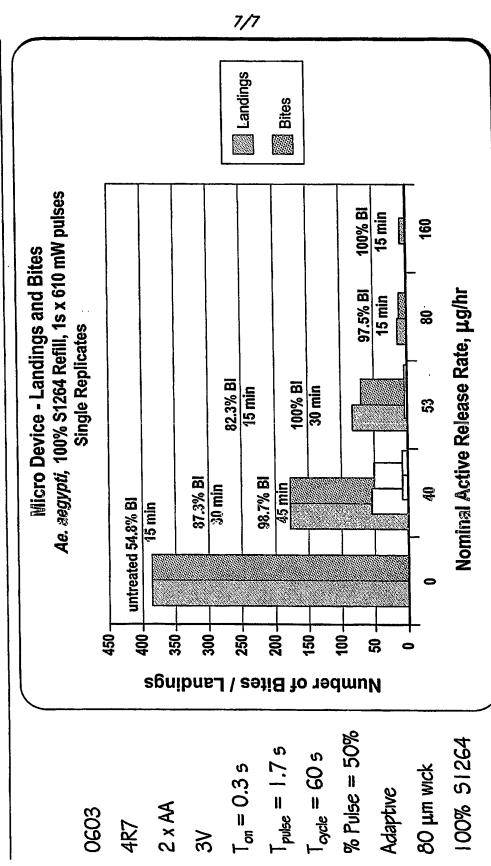
Performance: Battery Lifetime



 $2 \times AA$ quality alkaline batteries give 1 - 2 months performance at $50 \, \mu g/hr$

FIGURE 6

Performance: Bioefficacy



 $50 \,\mu g/hr = 1 \times 25 \,pulse per 3 \,mm \,125$

90% bite inhibition in 15 min (5 replicates)

FIGURE 7